No.



8000052

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Terra Seed Company

Tolliereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXPLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

COTTON

'Deltapine SR-5'

In Lestimony Withercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 18th day of December in the year of our Lord one thousand nine hundred and eighty.

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Secretary of Arriculture

Attost:

Secting Commissioner

Plant Variety Protection Office Grain Division

Sain Dioision Aaricultural Marketina Seroice



8000052

TO ALL TO WHOM THESE PRESENTS SHALL COMES

Delta & Pine Land Company

Tothereas, there has been presented to t

Эсельськигом срц. Губань и заявины с

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH SES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) SUBJICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT WARRENT PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC seed of the variety in a public repository as provided by ${
m LAW}_i$ the right to ex-IDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine SR-5'

In Zestimony Whereot, I have hereunto set my hand and caused the seal of the Elaut Variety Protection Office to be affixed at the City of Washington

this 18th day of December the year of our Lord one thousand nine

hundred and eighty.

Plant Variety Protection Office

Agricultural Marketing Service

UNITED STATES DEPARTMEI AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE	E		FORM APPROVED OMB NO. 40-R3822
APPLICATION FOR PLANT VARIE		N CERTIFICATE	No certificate for pla be issued unless a co has been received (5 U	int variety protection may impleted application form J.S.C. 553).
1a. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAM	Ë	FOR OFFICE	AL USE ONLY
6434-58-61	Deltapine	SR-5	PV NUMBER	9000052
2. KIND NAME	3. GENUS AND SPE		FILING DATE 2/7/80	1:00 (P.M.)
Cotton	Gossypium	hirsutum	FEE RECEIVED	DATE
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETER	NOITANIME	s 500.	2/7/80
Malvaceae	November	1967	\$ 250.00	11/13/80
6. NAME OF APPLICANT(S)		t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA
Delta & Pine Land Company	Code) Scott, Mi	ssissippi 3877	2	(601) 742-3351
9. IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh	RSON, FORM OF ip, association, etc.)	10. IF INCORPORAT	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION
Corporation	uf a	Delaware		10/19/78
12. NAME AND MAILING ADDRESS OF APPI ALL PAPERS:	LICANT REPRESENTA	ATIVE(S), IF ANY, TO S	SERVE IN THIS APPLIC	
Research D Delta & Pir Scott, Miss	ne Land Compa issippi 38772	TERRY からした の の の の の の の の の の の の の の の の の の の	D. Carroli Western Die A Pene Lau	15/00 d Co.
13. CHECK BOX BELOW FOR EACH ATTACH	IMENT SUBMITTED:	10640	CK, TX 79.	401
🖄 13A. Exhibit A, Origin and Bree	ding History of the	Variety (See Section 5	2 of the Plant Variety	Protection Act.)
X 13B. Exhibit B, Novelty Statem		:		ŕ
X 13C. Exhibit C, Objective Descri	iption of the Variety	(Request form from	Plant Variety Protecti	ion Office.
X 13D. Exhibit D, Additional Desc				
14a. DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answe	SEED OF THIS VAR		RIETY NAME ONLY AS	A CLASS OF CERTIFIED
14b. DOES THE APPLICANT(S) SPECIFY THAT	T THIS VARIETY BE			ATIONS OF PRODUC-
LIMITED AS TO NUMBER OF GENERATIONS? TION BEYOND BREEDER SEED?				
X YES NO FOUNDATION REGISTERED CERTIFIED			X CERTIFIED	
15a. DID THE APPLICANT(S) FILE FOR PROTI name of countries and dates.)	ECTION OF THIS VAR	RIETY IN OTHER COU	NTRIES? TYES	NO (If "Yes," give
15b. HAVE RIGHTS BEEN GRANTED THIS VA and dates.)	RIETY IN OTHER CO	UNTRIES? YES	NO (If "Yes,")	give name of countries
16. DOES THE APPLICANT(S) AGREE TO THE JOURNAL? X YES	E PUBLICATION OF H	IS/HER (THEIR) NAME	E(S) AND ADDRESS IN	THE OFFICIAL
17. The applicant(s) declare(s) that a viable replenished upon request in accordance	sample of basic seed with such regulation	l of this variety will b	e furnished with the a	pplication and will be
The undersigned applicant(s) is (are) th variety is distinct, uniform, and stable a 42 of the Plant Variety Act.	e owner(s) of this se	xually reproduced no	vel plant variety, and l	provisions of Section
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.				
December 19, 1979	December 19, 1979			Vie P.
(DATE)				
Desergh 24, 1979		Dr. Ro	gen Dowar	d Cotton Breed
(DATE)		· · · · · · (§	MGNATURE OF APPLIC	CAMT) [™] नुँ

FORM GR-470 (1-78)

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

EXHIBIT A

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE SR-5

Origin and Breeding History

Deltapine SR-5 originated from a F_3 plant selected in 1966 from a cross made in 1964 between Acala 1517 BR2 and a breeding line derived from the cross Rex x Deltapine Smooth Leaf 358. Individual plant selection in the final cross was begun in the F_2 in 1965, with plant selections within progeny rows in the F_3 in 1966.

Deltapine SR-5 was tested in progeny rows in the $\rm F_4$ in 1967 and in the $\rm F_5$ in 1968. From 1969 to 1978 Deltapine SR-5 was tested in replicated variety trials at various High Plains locations.

Deltapine SR-5 has been tested by public experiment stations and other companies also. The experimental designation since 1966 has been Deltapine 6434-58-61. In comparison with current Deltapine varieties in the High Plains, Deltapine SR-5 exhibits increased tolerance to Verticillium Wilt.

DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401 10/10/80 Addition to Cotton Application No. 8000052-Deltapine SR-5

Exhibit A: Stability of Deltapine SR-5

The stability of Deltapine SR-5 derives from the fact that it originated from a single F3 plant selection that has been carefully maintained as a separate entity to assure that the variety remains true breeding. The attached tables demonstrate the consistency of Deltapine SR-5 for fiber and agronomic characteristics within the variations caused by environment. Deltapine SR-5 has consistently given fiber strength of 22 grams/tex or greater (Table B I 1) during five years of testing. Plant height has consistently been taller than Deltapine SR-1

In order to assure this stability, plants of the variety are reselected at frequent intervals, grown in progeny rows, checked in progeny tests, and the variety then reconstituted by bulking lines which are characteristic of the variety.

DELTA & PINE LAND COMPANY , LUBBOCK, TEXAS 79401 10/10/80 Amendment to Cotton Application No. 8000052-Deltapine SR-5

EXHIBIT A

Variations in phenotypic characters in Deltapine SR-5 which have been noted during its development are differences in smoothness of leaf with the population. These differences are rated visually using the scale and descriptions given below.

SCALE	DESCRIPTION
5	Heavy Pubescence
6	Moderate Pubescence
7	Deltapine Smooth Leaf Type
8	Glabrous

Those plants which are given a rating of less than 7 (in this case a 5 or 6) are classified as hairy leaf plants in our rating system. These hairy leaf plants are variant plant types in Deltapine SR-5.

This variation is described under EXHIBIT C, Item 8, and detailed in Table C VI.

DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401 10/10/80 Amendment fo Cotton Application No. 8000052-Deltapine SR-5

TABLE C VI

Variants for leaf smoothmess in Deltapine SR-5 are hairy leaf plants as determined by the classing system described in EXHIBIT A.

CLASS	2	% OF TOTAL POPULATION
5		6.7 31 39 Hains Blanks
6		24.6 31.3% Hairy Plants
7	•	50.6
8	• •	18.0

EXHIBIT "A"

ASSET LIST

Plant Variety Protection on Following Varieties:

- 1. Deltapine SR 482
- 2. Deltapine SR 383
- 3. Southland M-1
- 4. Southland 007 Ready for PVP
- 5. Terra SR 10
- 6. Southland 400
- 7. All germplasm in the SOUTHLAND SEED COMPANY research program.
- 8. All existing PVP
- 9. All bagged seed in the possession of SOUTHLAND SEED COMPANY

TOTAL: \$200,996.00

Research Equipment

- 1. Hance Lab Seed Cleaner
- 2. Toledo Scales 100 lbs.
- 3. Toledo Scales 500 gm.
- 4. Eagle 10 Saw Gin
- 5. 8 Saw Table Model Gin
- 6. Debur Machine
- 7. Cotton Seed Oil Press
- 8. Small Delinting Line with Dryer
- 9. Cement Mixer (for delinting)
- 10. Cotton Stripper 282 J.D.
- 11. 4 Row Planter 6100 J.D.
- 12. 4 Almaco Belt Cones
- 13. Sortex Pneumatic Separator
- 14. Miscellaneous Small Research Supplies and Equipment

Office Equipment and Furniture

- 1. Fax Machine RF 850
- 2. 1 Wood Executive Desk and 3 Chairs
- 3. 1 Metal Credenza
- 4. 4 Metal Desks
- 5. 13 Office Chairs
- 6. 1 Fireproof File Cabinet
- 7. 5 Work Tables
- 8. 5 Book Shelves
- 9. Customer List
- 10. All Computer Software Pertaining to SSC

TOTAL EQUIPMENT: \$ 26,000.00

TOTAL PURCHASE PRICE: \$226,996.00 plus the total amount

of "fuzzy seed" (to be calculated after closing) at \$160.00 per ton.

EXHIBIT B

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE SR-5

Data Indicative of Novelty

Deltapine SR-5 most nearly resembles Deltapine SR-1 (PVP No. 7200042). These two varieties have a common parent, Deltapine Experimental Strain 5835 (Rex x Deltapine Smooth Leaf 358). Deltapine SR-5 has been compared with Deltapine SR-1 in Research Department tests during the period 1972-78 as shown in the following summary:

Table B I - Comparison Deltapine SR-5 and SR-1

D	eltapine SR-5	<u>Deltapine SR-1</u>	<u>Difference</u>
Lint yield (lbs.) (1972-1978)	534	499	+30
Percent of Check (%)	107	100	+7
Lint Percent (%)	22.4	21.2	+1.2
Plant Height (Index)	2.6	2.3	+0.3
Retention of Seed Cotton in Boll (Index	2.6	2.6	0
Percent Wilt (Verticillium albo atrium)	38	56	+18
Staple Length Servo-Fibrograph (in.)	1.01	1.02	01
Fiber Length Unfiormity index/ratio	43/76	44/77	-1/-1
Fiber Strength (gm/tex)	23.4	23.9	-0.6
Micronaire (units)	3.3	3.2	+0.1

The above table represents an average of six years and includes 17 tests. Yield results are reported by years and by tests in the attached tables (B I 1). Copies of the original tables from Delta & Pine Land Company records are available but are not attached.

The principal feature of Deltapine SR-5 is an improved level of resistance to Verticillium Wilt. This is best demonstrated by putting together results of those tests where wilt infection was rated. The following table covers wilt tests in four years and non-wilt tests in five years. These results are summarized as follows:

<u>Table B II - Comparison Deltapine SR-5 and SR-1 in the Presence and Absence of Wilt</u>

	Deltapine SR-5	Deltapine SR-1	Difference
Yield Wilt Present	513	443	70
Yield Wilt Absent	546	508	38
Yield % Check Wilt Present	116	CK	16
Yield % Check Wilt Absent	107	CK	7
Wilt Percentage (Wilt Present)	38	. 5 <i>7</i>	19

DELTA & PINE LAND COMPANY, SCOTT, MISSISSIPPI 38772 3/13/80 Amendment to Cotton Application No. 8000052 - Deltapine SR-5

EXHIBIT B

The principal feature which distinguishes Deltapine SR-5 is its increased wilt resistance. Our Table B I shows a difference in wilt resistance of 18%. Since we are talking about wilt percent the figure should be -18 rather than +18.

In Deltapine SR-1 we have good length, strength and micronaire. Our objective was to increase the wilt resistance and maintain the other characteristics of the Deltapine SR-1. Inasmuch as all these features are quantitatively inherited, we have been very fortunate in altering only two, the wilt resistance and the lint percentage.

Differences in percent wilt were carefully rated, and Deltapine SR-5 averaged having 18 percent less wilt. As further proof of this difference, the Deltapine SR-5 outyields the Deltapine SR-1 by 16% where wilt is present and by 7% where there is no wilt. This 9 percent difference then is due to the increased wilt resistance of Deltapine SR-5.

Lint Percentage

Delta & Pine Land Company, Research Department Tests

From Exhibit B

Year and No. of Tests	Deltapine SR-5	Deltapine SR-1	Differences
1972 (1)	23.6	22.5	+1.1
1973 (2)	24.4	23.1	+1.3
1974 (3)	20.6	19.2	+1.4
1976 (3)	16.9	14.5	+2.4
1977 (4)	24.0	23.6	+0.4
1978 (4)	25.1	24.6	<u>+0.5</u>
Average	22'.4	21.2	+1.2

For six years (tests failed in 1975) Deltapine SR-5 has demonstrated a consistently higher lint percentage than Deltapine SR-1.

The parents of Deltapine SR-5 and SR-1 are quite different on one side, but the principal difference between these two varieties is in their relative resistance to the Verticillium Wilt disease.

F)0RM GR-470-8 (10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

EXHIBIT C (Cotton)

HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse.	COTTON (GOSSYPIUM SPP.)	EOP OFFIC	IAL USE ONLY
Delta & Pine Land Comp	any	PVPO NUMBER	
ADDRESS (Street and No. or R.F.D. No., City, State,		1	8000052
Scott Mississippi 2077	20	VARIETY NAME OR DESIGNATION	TEMPORARY
Scott, Mississippi 3877	4	Deltapine	SR-5
Place the appropriate number that describes the Place a zero in first box (e.g. 0 8 9 or 0	varietal character of this variety in th 9) when number is either 99 or less o	ne boxes below. or 9 or less.	
I. SPECIES:			·
1 = GOSSYPIUM HIRSUTUM 2 = G	OSSYPIUM BARBADENSE	. :	
2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = No	ot Adapted, 2 = Adapted):		
0 EASTERN 1 DELTA	2 CENTRAL 2 HI	GH PLAINS	2 EL PASO AREA
1 WESTERN LOW HOT VALLEYS	O SAN JOAQUIN OT	THER (Specify)	
3. MATURITY (50% Open Boll): See Table (CI		
NO. OF DAYS EARLIER THAN	1 = COKER 310 2 = 4 = PAYMASTER 111	= DELTAPINE 16 3 5 = ACALA 1517-70	= STONEVILLE 213 6 = ACALA SJ-1
NO. OF DAYS LATER THAN		OTHER (Specify) De	
4. PLANT HABIT:		1 = FOLIAGE SPARSE	2 - DENCE
2 1 = SPREADING 2 = INTERMEDIATE	3 = COMPACT 1	3 = OTHER (Specify)_	Z - DENSE
5. PLANT HEIGHT: See Table C I	I		
CM. SHORTER THAN	1 = COKER 310 2 =		S = STONEVILLE 213
5 CM. TALLER THAN	8 4 = PAYMASTER 111 7 = LANKART 57 8 =	5 = ACALA 1517-70 $OTHER(Specify) D0$	6 = ACALA SJ-1 eltapine SR-4
6. MAIN STEM:	Table C III	Table C IV	
3 1 = LAX 2 = ASCENDING 3 = ERECT	14 cm. to first 0 5	NO. OF NODES TO F	IRST FRUITING BRANC
7. LEAF: Table C V 8. LEAF PUBESCEN	SE: Table C VI 1 = GLABR	OUS (HAIRS AS SPARSI	E AS D ₂ SMOOTH)
I II NIWINESTIEAVES () A I	(LEAF (DELTAPINE SMOOTH LEAF) PUBESCENCE (H ₁ OR H ₂) 5 = OTHER		(STONEVILLE 213)
9. LEAF COLOR:		(2) A = DED	
121	GREEN 3 = DARK GREEN (Acala-44	42) 4 = RED	
5 = OTHER (Specify).	* de 12		
	ER OKRA 4 = OTHER (Specify)		
11. FLOWER:			
2 1 = NECTARILESS 2 = NECTARIED		•	
Petals: 1 = CREAM 2 = YELLOW	Pollen: 1 = CREAM 2 = YE	ELLOW	
12. FRUITING BRANCH TYPE:			
2 1 = CLUSTER 2 = SHORT 3 = NORMAL	1 = DETERMINATE 2 = INC	DETERMINATE	
13. GOSSYPOL CONDITION:] = NORMAL BUD GO	SSYPOL
1 = GLANDLESS 2 = REDUCE D GLANDS 4 = OTHER (Specify)	3 = NORMAL GLANDS	2 = HIGH BUD GOSSY	
14. SEEDS:	l = sparse (gree	GG 35) 2 = MODERA	TE (DPL-16)
1 1 2 ± 1 0 SEED INDEX (Fuzzy seed basis)		A SJ-1) 4 = OTHER (

FORM SR-8709 IREVERS) Table C VIII 2 Locales: 1 = 5.4 2 Locales: 2 = 4.5 3 0 No. SEEDS PER BOLL 2 Picod: 1 = MONE 2 = FINELY 3 0 No. SEEDS PER BOLL 2 Picod: 2 = FINELY 3 0 No. SEEDS PER BOLL 2 Picod: 1 = MONE 2 = FINELY 3 0 No. SEEDS PER BOLL 2 Picod: 1 = MONE 2 = FINELY 3 0 PER BOLL 2 Type: 2 = STORM RESTRAIN (LANKART 57) 3 Shope: 2 = LENGTH × WIDTH 3 = OPEN IOELTAPINE 16) 1	8000052 Deltapine SR-	5
1 = 3.4 3 0 NO. SEEDS PER BOLL 2 3 0 LINT PERCENT 3 8 NM. DIAMETER 2 FIRELY 6 0 0 GRAMS SEED COTTON 2 Breedth: 1 = SROADER AT BASE 2 = GROADER AT MIDDLE 2 =	FORM GR-470-8 (REVERSE)	تعنت
2 Locales: 2 = 4.5 3 0 NO. SEEDS PER BOLL 2 3 0 LINT PERCENT 3 8 MM. DIAMETER 2 PIRTOS. 2 = FINELLY 3 = COLUMBELY 6 0 0 GRAMS SEED COTTON 2 Breadth: 1 = BROADER AT MIDDLE 2 = FINELY 3 = COLUMBELY 2 = FINELY 3 = COLUMBELY 2 = FINELY 3 = COLUMBELY 3 = COLUMBELY 2 = FINELY 3 = COLUMBELY 3		
2 Pitted: 2 FINELY 6 0 0 PER BOLL 2 BROADER AT MIDDLE		ĒŘ
2 Type: 2 = 3 CORM RESISTANT (LANKART 57) 3 Shape: 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH 4 = STAPLE (Specific) 1 Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH 4 = OTHER (Specific) 1 Tyteld: Compared to. Not compared with any of these 1 = COCKER 310 2 = DELTAPINE 16 3 = STOMEVILLE 213	2 Pitted: 2 = FINELY 6 0 0 GRAMS SEED COTTON 2 DIRECTION 2 = BROADER AT MIDDLE	
Teeth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH 2 Teeth: 1 = FINE 2 = COURSE 2 Teeth: 1 = FINE 2 = COURSE 2 Teeth: 1 = S.4 2 = 5.7 3 = 8-10 4 = OTHER (Specify) 17. YIELD: Compared to— Not compared with any of these	Type: 2 = STORM RESISTANT (LANKART 57) 3 Shape: 2 = LENGTH = WIDTH	
2 Teeth: 1 = 3.4 2 = 5.7 3 = 8-10 4 = OTHER (Specify) 17. YIELD: Compared to Not compared with any of these 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA 35-1 7 = LANKART 57 18. FIBER LENGTH (Complete one or more of the following and give the means): Table B I 5 SPAN LENGTH 50% 5 SPAN LENGTH 32nd INCHES 7 6 UNIFORMITY RATIO (MEAN/U.H.M.) 4 3 UNIFORMITY INDEX (50% SPAN/2.5% SPAN) 19. FIBER STRENGTHANDE LONGATION: 1 0 4 1,000 p.s.l. 1 0 4 1,000 p.s.l. 2 VERTICILLIUM VILLE 15 VERTICILLIUM VILLE 16 VERTICILLIUM VILLE 17 VERTICILLIUM VILLE 16 VERTICILLIUM VILLE 17 VERTICILLIUM VI	16. BRACTEOLES:	
2 Teeth: 1 = FINE 2 = COURSE 2 4 = OTHER (Specify) 17. YIELD: Compared to. Not compared with any of these 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213		
PERCENT LESS THAN 1 = COKER 310 2 = DELTAPINE 16 3 = STOMEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA 351-1 7 = LANKART 57 18. FIBÉR LENGTH (Complete one or more of the following and give the means): Table B T 10 1 U.H.M. LENGTH 10 1 U.H.M. LENGTH 10 2 UNIFORMITY RATIO (MEAN/U.H.M.) 4 3 UNIFORMITY INDEX (50% SPAN/2.5% SPAN) 19. FIBER STRENGTH AND ELONGATION: Table B T 10 4 1,000 P.S.I.	12	
PERCENT LESS THAN 4 = PAYMASTER 111 5 = ACALA 151-70 6 = ACALA 5J-1 7 = LANKART 57 18. FIBER LENGTH (Complete one or more of the following and give the means): Table B I SPAN LENGTH 50% SPAN LENGTH 2.5% Table B I 1 0 1 U.H.M. LENGTH STAPLE LENGTH 32nd INCHES 7 6 UNIFORMITY RATIO (MEAN/U.H.M.) 4 3 UNIFORMITY INDEX (50% SPAN/2.5% SPAN) 19. FIBER STRENGTH ANDELONGATION: 10 4 1.000 p.s.i. 1 0 4 1.000 p.s.i. Table B I YARN STRENGTH (Give tost method) 2 3 4 STILOMETER To 20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 2 VERTICILLIUM WILT 0 ROOT KNOT NEMATODE 0 BACTERIAL BLIGHT (Race 2) 0 ASCOCHYTA BLIGHT (Race 2) 0 ANTHRACNOSE 0 RUST 0 PHYMATOTRICHUM ROOT ROT 0 ROOT ROT 0 RHIZOCTONIA 0 PHID 0 FLEAHOPPER 0 LEAFWORM 0 FALL ARMYWORM 0 GRASSHOPPER 0 LYGUS 0 PINK BOLLWORM 0 PINK BOLLWORM 0 STINKBUS 0 SPIDERMITE		
PERCENT MORE THAN 6 = ACALA SJ-1 7 = LANKART 57	PERCENT LESS THAN	
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MEAN LENGTH STAPLE LENGTH 32nd INCHES	18. FIBER LENGTH (Complete one or more of the following and give the means): Table B I	
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19. FIBER STRENGTH AND ELONGATION: 1 0 4 1,000 P.S.I. 20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 2 VERTICILLIUM WILT 0 ROOT KNOT NEMATODE BLIGHT (Race 1) 0 BACTERIAL BLIGHT (Race 2) 0 ANTHRACNOSE 0 RUST OTHER (Specify) 21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 0 BOLL WEEVIL 0 APHID 0 FLEAHOPPER 0 LEAFWORM 0 STINKBUG 0 THRIP 0 CUTWORM 0 SPIDERMITE	MEAN LENGTH STAPLE LENGTH 32nd INCHES	
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2 VERTICILLIUM WILT 0 ROOT KNOT NEMATODE 0 BACTERIAL BLIGHT (Race I) 0 BACTERIAL POINT 0 ASCOCHYTA D PHYMATOTRICHUM ROOT ROT OT 0 RHIZOCTONIA 0 ANTHRACNOSE 0 RUST OTHER (Specify) 21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 0 BOLL WEEVIL 0 APHID 0 FLEAHOPPER 0 LYGUS 0 PINK BOLLWORM 0 STINKBUS 0 THRIP 0 CUTWORM 0 SPIDERMITE	Table B I TARN STRENGTH (Give test method)	Ť
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U BLIGHT (Race 2) O ANTHRACNOSE O RUST OTHER (Specify) 21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) O BOLL WEEVIL O APHID O FLEAHOPPER O LEAFWORM O STINKBUG O THRIP O CUTWORM O SPIDERMITE	12 WILT U REMATORE U BLIGHT (Race I)	
O ANTHRACNOSE O RUST OTHER (Specify) 21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) O BOLL WEEVIL O APHID O FLEAHOPPER O LYGUS O PINK BOLLWORM O STINKBUG O THRIP O CUTWORM O SPIDERMITE	TU PACTERIAL III RHIZOCTONIA	
O BOLL WEEVIL O APHID O FLEAHOPPER O LEAFWORM O FALL ARMYWORM O GRASSHOPPER O LYGUS O PINK BOLLWORM O STINKBUG O THRIP O CUTWORM O SPIDERMITE		cogne, r
O FALL ARMYWORM O GRASSHOPPER O LYGUS O PINK BOLLWORM O STINKBUG O THRIP O CUTWORM O SPIDERMITE	21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)	
O STINKBUG , O THRIP O CUTWORM O SPIDERMITE	0 BOLL WEEVIL 0 APHID 0 FLEAHOPPER 0 LEAFWORM	
	0 FALL ARMYWORM 0 GRASSHOPPER 0 LYGUS 0 PINK BOLLWORM	•
OTHER (Specify)	0 STINKBUG 0 THRIP 0 CUTWORM 0 SPIDERMITE	
	OTHER (Specify)	متسنة

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form: edures for completing this form:
(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

ASSIGNMENT

The undersigned (the "Seller"), for good and valuable consideration hereby assigns to TERRA CHEMICALS INTERNATIONAL, INC., a Delaware corporation, and its successors and assigns (the "Buyer"), all of the undersigned's right, title and interest in and to all of the Seller's breeding rights to all generations of "stripper type" cotton seed now owned by the Seller, including, but not limited to, those described on Schedule 1 annexed hereto, and any varieties pending registration, all experimental varieties either in the increase stage or in the laboratory testing stage and all research (including such data as may be on computers), strains and materials.

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office of the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and the regulations promulgated thereunder.

IN WITNESS WHEREOF, the Seller has caused this Assignment to be executed on its behalf by its duly authorized officer on this $3\mbox{\ensuremath{\upsell}{\sc d}}$ day of March, 1983.

DELTA PINE LAND COMPANY

F.W. Canfield

STATE OF TENNESSEE

COUNTY OF SHELBY

Before me, a Notary Public, in and for said State and County, duly commissioned and qualified, personally appeared F. W. CANFIELD, known to me to be the person whose name is subscribed to the foregoing instrument and known to me to be the Financial Vice President of DELTA AND PINE LAND COMPANY, a corporation, and acknowledged to me that he executed said instrument for the purposes and consideration therein expressed, and as the act of said corporation.

Given under my hand and seal of office this 34 day of March, 1983.

Notary Public

My commission expires:

My Commission Expires March 17, 1986

Cotton Seed Varieties of Delta and Pine Land Company for which Certificates have been issued

Variety		Certificate No.	Certificate <u>Date</u>
Deltapine	SR-1	7200042	6/27/75
Deltapine	SR-2	7200043	6/27/75
Deltapine	SR-4	7500089	6/17/76
Deltapine	SR-5	8000052	12/18/80
Deltapine	SR-980	8100098	11/19/81
Deltapine	SR-482	8200067	7/15/82
Deltapine	SR-383	8200137	12/30/82

ASSIGNMENT

The undersigned (the "Sellers"), for good and valuable consideration, hereby sells, assigns and transfers to Summit Seed Company, Inc., a Texas corporation, and its successors and assigns (the "Buyer") all of the undersigned's right, title and interest in and to the following plant varieties:

Certificate Number 8400088, Terra SR-10
Certificate Number 7200043, Deltapine SR-2
Certificate Number 7500089, Deltapine SR-4
Certificate Number 8000052, Deltapine SR-5
Certificate Number 8200137, Deltapine SR-383
Certificate Number 8200067, Deltapine SR-482
Certificate Number 7200042, Deltapine SR-1
Certificate Number 8100098, Deltapine SR-980

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office, the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and Regulations promulgated thereunder.

IN WITHESS WHEREOF, The Sellers have caused this Assignment to be executed on their behalf by their duly authorized officers effective on the 27th day of August, 1986.

TERRA SEED COMPANY

By: Mady . Wulturen
Gregory Duerksen
Its: Vice President

TERRA INTERNATIONAL, INC.

By: Inegora & Muerksen
GREGGEY III DUZKSEN
Its: VP, Marketing & Development

STATE OF Towa S

THIS INSTRUMENT ACKNOWELDGED BEFORE ME on this the day of \(\frac{\gamma_{\sqrt{\gred{\quadet}}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gred{\gred{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\gred{\gred{\gred{\quadet}}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\chindet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\gamma_{\sqrt{\quadet}}}}}} \end{\gamma_{\sqrt{\quadet}}}} \end{\gamma_{\sqrt{\quadet}}}}} \end{\gamma_{\sqrt{\quadet}}} \end{\gamma_{\sqrt{\quadet}}}} \end{\gamma_{\sqrt{\quadet}}}} \end{\gamma_{\sqrt{\quadet}}} \end{\gamma_{\sqrt{\quadet}}}} \end{\gamma_{\sqrt{\quadet}}} \end{\gamma_{\sqrt{\quadet}}} \end{\gamma_{\sqrt{\quadet}}} \end{\gamma

Notary Public State of James BRENDA'S BRADLEY, Notary Public In and for the State of lowa My Commission Expires Aug. 18, 1989

STATE OF Jour 5

COUNTY OF Woodbury 5

day of May , 1988, by Gregory J. Duerk Sen , Vice

Notary Public State of 10000

BRENDA'S BRADLEY Notary Public

In and for the State of lowa

My Commission Expires Aug. 18, 1989

BILL OF SALE

DATE: May 6, 1988

SELLER: Summit Seed Company, Inc., a Texas corporation

SELLER'S ADDRESS: 622 28th Street

Lubbock, Lubbock County, Texas 79401

BUYER: West Texas Seed and Delinting, Inc., a Texas corporation

BUYER'S ADDRESS: Box 335

Slaton, Lubbock County, Texas 79364

CONSIDERATION: TEN AND NO/100THS DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged.

PERSONAL PROPERTY: (1) Certain fixed assets of Seller relating to its cotton seed business, including those assets

listed on Exhibit "1" attached hereto.

- (2) Seller's entire cotton breeding and research program, expressly including the breeding rights to all cotton varieties or strains now owned by Seller, including, but not limited to those registered varieties described in Exhibit "2" attached hereto, the advance experimental strains of cotton varieties listed in Schedule "3" attached hereto and all other experimental strains or varieties either in the increased stage or in the laboratory testing stage, and all research data, strains, crosses, seeds, and materials relating to cotton and/or Seller's cotton seed business.
- (3) all of Seller's intellectual property rights, whether registered or not, including, without limitation, trade secrets, software, trademarks, service marks, registered names, copyrights, certificates of plant variety protection, and patents relating to Seller's cotton seed business or the assets conveyed herein, except, however, Seller does not convey any goodwill connected with the name "Summit Seed Co." or any variations thereof and WTS&D shall not have the right to use such name except in sale of existing bags, containers and/or labels bearing the Summit name.
- (4) All of Seller's existing inventory of registered and breeder's cotton seed, together with all bags, labels and other containers associated with said inventory of cotton seed, and the right to use the labels, and containers in the course of sale of such inventory.
- (5) All of Seller's right, title and interest in any claims, causes of action and judgments relating to Seller's cotton seed business for the assets conveyed herein.
- (6) All books, records, and other data relating to Seller's cotton seed business or to the purchased assets, including, without limitation, all customer lists, fixed asset records, purchase orders, invoices, sales orders, correspondence, contract files, sales literature, catalogues, brochures, price lists, and product data.

FOR VALUE RECEIVED Seller sells and delivers the

personal property to Buyer and warrants and agrees to defend title to the personal property to Buyer against all lawful claims.

SUMMIT SEED COMPANY, INC., a Texas Corporation

Its: President

ATTEST:

Jerry Parker, Secretary

EXHIBIT "1"

One John Deere LP Tractor

One Debur Machine

One 10 Saw Table Gin

One Cotton Press

One 10 Saw Eagle Gin

One Lint Cleaner

One Research Gin

One Micronaire Gage

One Smith Air Compressor

One Cotton Stripper

One Acid Delinter

One Saw Gin Condenser

One Four Row Planter with Cones

EXHIBIT "2"

PVP Certificate Number 8400088, Terra SR-10

PVP Certificate Number 7200043, Deltapine SR-2

PVP Certificate Number 7500089, Deltapine SR-4

PVP Certificate Number 8000052, Deltapine SR-5

PVP Certificate Number 8200137, Deltapine SR-383

PVP Certificate Number 8200067, Deltapine SR-482

PVP Certificate Number 7200042, Deltapine SR-1

PVP Certificate Number 8100098, Deltapine SR-980.

X41431

X41432

X41427

X41428

X41402

X61003

X61002

X61001

X61004

Any and all other experimental varieties in existence owned by Summit.

SECURITY AGREEMENT

	Date May 6, 1988
WEST TEXAS SEED & DELINTING, INC (Debtor's Name)	P. O. Box 355 Street Address
Slaton Lu	bbock Texas 79364 County State
(hereinafter called DEBTOR) for value received he	ereby grants to
LORENZO STATE BANK	
(Secured Par	ty's Name)
(hereinafter called SECURED PARTY) whose add	ress is P. O. Box 490 Street
	9343
	nty, and State PARTY the following described property (which here-
inafter is referred to as COLLATERAL) to-wit:	trivit wie tono wing decorroed property (which here
All of Debtor's right, title and Plant Variety Protection Certific Texas Seed & Delinting, Inc.	interest in and to the following cates, each in the name of West
1. Certificate No. 8400088, Terra 2. Certificate No. 7200043, Delta 3. Certificate No. 7500089, Delta 4. Certificate No. 8000052, Delta 5. Certificate No. 8200137, Delta 6. Certificate No. 8200067, Delta 7. Certificate No. 7200042, Delta 8. Certificate No. 8100098, Delta	apine SR-2 apine SR-4 apine SR-5 apine SR-383 apine SR-482 apine SR-1
(Note—If COLLATERAL is crops, or oil, gas or miners o become a fixture, describe in the above space following the dive the name of the record owner hereof.) Disecure DEBTOR'S note to SECURED PARTY da	als to be extracted, or timber to be cut, or if COLLATERAL is ne description of the COLLATERAL the real estate concerned, ted May 6 , 19 88 , for \$365,000.00
DEBTOR warrants and covenants: (Note-P	lace checkmark () in the blank space
 COLLATERAL is to be used for personal, family, or household purposes. COLLATERAL is to be used in business other than farming operations. COLLATERAL is equipment used in farming operations, or farm products, or accounts, contract rights or general intangibles arising from or relating to the sale of farm products by a farmer. COLLATERAL is accounts or contract rights and the records concerning same are kept at 	h statement which applies to this agreement.) () COLLATERAL is a fixture attached to or to become a fixture attached to the above described land. () COLLATERAL is being acquired by DEBTOR from SECURED PARTY or is being acquired with the proceeds of the advance evidenced by this agreement. DEBTOR'S residence is at: P. O. Box 355, Slaton, TX 79364 (Address) COLLATERAL will be kept at: P. O. Box 355, Slaton, TX 79364
or if left blank at address given for DEBTOR.	(Address) DEBTOR'S chief place of business is at: P. O. Box 355, Slaton, TX 79364
id made a part hereof for all intents and purposes	(Address) ats on the reverse side hereof are incorporated herein. DEBTOR and SECURED PARTY as used in this laministrators, successors or assigns of those parties. DEBTOR: WEST TEXAS SEED & DELINTING, INC.
Mer Jarner	H.K. Warraldson Phia
(Signature) (Title) MAX JOINER, Exec. Vice President	(Signature) (Title) H. R. DONALDSON, President

SALE AND ROYALTY AGREEMENT

This Agreement made and entered into on the date hereinafter written, and between SOUTHLAND SEED COMPANY, Texas partnership, hereinafter called "Southland," and SEEDCO CORPORATION, a Texas corporation, hereinafter called "Seedco," as follows:

WHEREAS, Southland is the owner of certain equipment and an inventory of planting seed including legally protected varieties of seed, and

WHEREAS, Seedco desires to purchase the equipment owned by Southland identified in the attached Exhibit "A" for the price set out in the attached Exhibit "A" upon the terms and conditions set out in the Agreement, and

WHEREAS, Seedco further desires to purchase the inventory of planting seed of Southland and the right to reproduce and market the seed varieties of Southland upon the terms and conditions set out in this Agreement, and

WHEREAS, the parties have entered into this Agreement for the purpose of evidencing their agreements and intentions in connection with the property and rights to be acquired by Seedco from Southland.

NOW, THEREFORE, for and in consideration of the mutual benefits to the parties hereto and the covenants and agreements set out herein, it is mutually agreed as follows:

- 10. Texas Law to Apply. This contract shall be construed and enforced in accordance with the laws of the State of Texas, and all obligations hereunder are performable in Lubbock County, Texas.
- 11. <u>Binding Effect</u>. This Agreement shall be binding on the parties hereto, their heirs, legal representatives, successors, and assigns to the extent of any permitted assignment.

DATED this 7th day of October, 1991, but effective September 1, 1991.

SOUTHLAND SEED COMPANY, A Texas Partnership

P.O. Box 335 Slaton, Texas 79364

By: Gray Frank GRAY, Fartner

SEEDCO CORPORATION

103 East Erskine Lubbock, Texas 79403

DVD LANGEORD VISIDENT

FM 400 North - P.O. Box 335 - Slaton, Texas 79364 - (806) 828-5845

To Whom It May Concern:

The Plant Variety Protection for Southland M-1 and Southland 400 are under the name of Southland Seed Company.

The Plant Variety Protection for Deltapine SR-383, 482, SR-5, 980 and Terra SR-10 are under the name of West Texas Seed & Delinting, Inc.

Southland Seed Company was a subsidiary of West Texas Seed & Delinting, Inc. and at the time of purchase were one in the same.

All varieties listed above under Southland Seed Company and West Texas Seed & Delinting, Inc. were all owned by the same entity.

> Jim Gray Owner/Manager